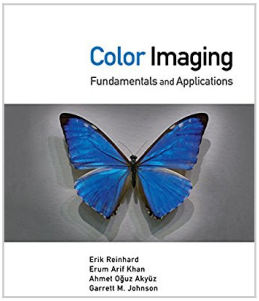

Color Imaging: Fundamentals and Applications

By Erik Reinhard, Erum Arif Khan, Ahmet Oguz Akyuz, Garrett Johnson

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This book provides the reader with an understanding of what color is, where color comes from, and how color can be used correctly in many different applications. The authors first treat the physics of light and its interaction with matter at the atomic level, so that the origins of color can be appreciated. The intimate relationship between energy levels, orbital states, and electromagnetic waves helps to explain why diamonds shimmer, rubies are red, and the feathers of the Blue Jay are blue. Then, color theory is explained from its origin to the current state of the art, including image capture and display as well as the practical use of color in disciplines such as computer graphics, computer vision, photography, and film.

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Editorial Review

Review

Color Imaging is outstanding in the way it brings together information useful to researchers, graduate students, and professionals who work in digital photography, computer graphics, computer vision, image processing, and electronic games. The writing is clear, and the many color illustrations are excellent.
?S.L. Tanimoto, *CHOICE*, March 2009

... covers a range of color theory concerns for any involved in computer graphics, vision, image processing and photography. Thus this book is a pick not just for college-level computer collections, but for advanced photography libraries as well. Chapters cover the basics of color's physics and chemistry, offering plenty of theory perfect for understanding how images are captured, altered, and presented. An accompanying DVD holds most of the color photos in the book in high dynamic range format?including source code for several algorithms?and provides readers with an essential key for understanding at an advanced level.
?*The Bookwatch*, November 2008

About the Author
Erik Reinhard is a lecturer at the University of Bristol and Assistant Professor at the University of Central Florida. He is the coauthor of numerous books, including High Dynamic Range Imaging, Fundamentals of Computer Graphics, and Practical Parallel Rendering. Erum Arif Khan and Ahmet Oguz Akyuz are researchers at the University of Central Florida focusing on high dynamic range imaging with an emphasis on color. Garrett M. Johnson is a color scientist in the Professional Applications division at Apple, Inc., and an Affiliate Professor with the Munsell Color Science Laboratory in the Center for Imaging Science at the Rochester Institute of Technology (RIT). He holds a Ph.D. in Imaging Science and an M.S. in Color Science, both from RIT.

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